



**SINGLE PHASE AC COUPLED  
INVERTER**

**SOWAVE SERIES  
1-6kW**

**Description**

The Solenso AC Coupled Inverter (1kW-6kW) is a versatile solution compatible with both single-phase and three-phase systems. It can seamlessly be integrated with microinverters, allowing for easy upgrades to solar battery storage without modifying your existing setup. Key features include high-frequency isolation charge and discharge efficiency of 97.6%, integrated Wi-Fi monitoring, remote parameter settings, and effortless maintenance due to its plug-and-play design. With protection level reaching IP65, it is water and dust resistant, and boasts reliable performance in various environments.

**Features**



**SEAMLESSLY SWITCH**

Seamlessly Switch Time between EPS with Grid.



**SAFETY**

Proven Safety.



**SMART**

Smart EMS/BMS.

**80<sup>MAX</sup>A**

**MAX.80A**

Max. 80A Battery Charge and Discharge Current.



**UNIBODY**

One-piece Aluminum Housing.



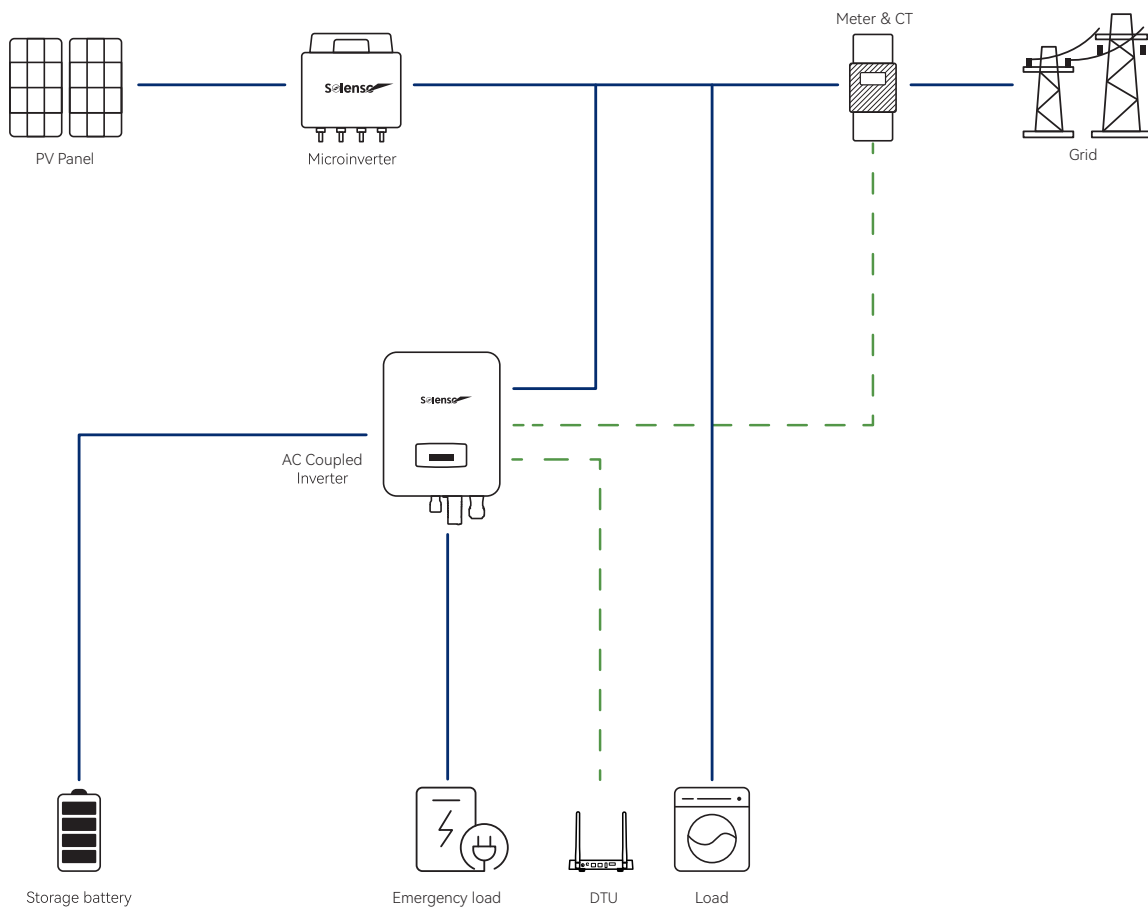
**SUPPORT**

Island support.

# Retrofitting Storage Solution on Existing Solar System

Adding battery storage to an existing solar system enables homeowners to store their solar PV generated electricity instead of export it to the grid. More savings on your electricity bill.

## Single Phase AC coupled (Retro Fit)



# Technical Specifications

Model	SoWave-SL1K	SoWave-SL1.5K	SoWave-SL2K	SoWave-SL2.5K	SoWave-SL3K
<b>Battery Port</b>					
Max. Charge/Discharge Power (kW)	1	1.5	2.0	2.5	3.0
Max. Charge/Discharge Current (A)	25	40	50	63	80
Battery Normal Voltage (V)	51.2				
Battery Voltage Range (V)	40-60				
Battery Type	Li-ion/lead-acid etc.				
<b>AC Grid</b>					
Max Continuous Current (A)	5.0	7.0	10.0	12.0	14.0
Max Continuous Power (kVA)	1.0	1.5	2.0	2.5	3.0
Nominal Grid Current (A)	4.6/4.4	6.9/6.6	9.1/8.7	11.4/10.9	13.7/13.1
Nominal Grid Voltage (V)	198 to 242 @ 220 / 207 to 253 @ 230				
Nominal Grid Frequency (Hz)	50/60				
Power Factor	0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)				
Current THD (%)	<3				
<b>AC Load Output</b>					
Max Continuous Current (A)	5.0	7.0	10.0	12.0	14.0
Max Continuous Power (kVA)	1.0	1.5	2.0	2.5	3.0
Max Peak Current (A) (10min)	6.9/6.6	10.5/10.0	13.7 / 13.1	17.1/16.4	20.5/19.6
Max Peak Power (kVA) (10min)	1.5	2.3	3.0	3.75	4.5
Nominal Ac Voltage L-N (V)	220 /230				
Nominal AC Frequency (Hz)	50/60				
Switching Time (ms)	Seamless				
Voltage THD (%)	<3				
<b>Efficiency</b>					
Max. Efficiency (%)	97.6				
Bat. between AC Efficiency (%)	96.8				
<b>Protection</b>					
Over Current/Voltage Protection	Yes				
Anti-Islanding Protection	Yes				
AC Short Circuit Protection	Yes				
Residual Current Detection	Yes				
Ground Fault Monitoring	Yes				
Insulation Resister Detection	Yes				
Enclosure Protect Level	IP65/NEMA4X				
<b>General Data</b>					
Dimensions (W*H*D, mm)	370*535*192				
Weight (kg)	18.5				
Topology	Transformerless				
Cooling	Intelligent Fan				
Relative Humidity	0-100 %				
Operating Temperature Range (°C)	-25 to 60				
Operating Altitude (m)	<4000				
Standby Consumption (W)	<10				
Mounting	Wall Bracket				
Communication with RSD	SUNSPEC				
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G				
Certification & Approvals	NRS097, G98/G99, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2				
EMC	EN61000-6-2, EN61000-6-3				

# Technical Specifications

Model	SoWave-SL3.6K	SoWave-SL4K	SoWave-SL4.6K	SoWave-SL5K	SoWave-SL5.5K	SoWave-SL6K
<b>Battery Port</b>						
Max. Charge/Discharge Power (kW)	3.6	4.0	4.6	5.0	5.5	6.0
Max. Charge/Discharge Current (A)	80	120	120	120	120	120
Battery Normal Voltage (V)	51.2					
Battery Voltage Range (V)	40-60					
Battery Type	Li-ion/lead-acid etc.					
<b>AC Grid</b>						
Max Continuous Current (A)	17.0	19.0	22.0	23.0	26.0	28.0
Max Continuous Power (kVA)	3.6	4.0	4.6	5.0	5.5	6.0
Nominal Grid Current (A)	16.4/15.7	18.2/17.4	21.0/20.0	22.8/21.8	25.0/24.0	27.3/26.1
Nominal Grid Voltage (V)	198 to 242 @ 220 / 207 to 253 @ 230					
Nominal Grid Frequency (Hz)	50/60					
Power Factor	0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)					
Current THD (%)	<3					
<b>AC Load Output</b>						
Max Continuous Current (A)	17.0	19.0	22.0	23.0	26.0	28.0
Max Continuous Power (kVA)	3.6	4.0	4.6	5.0	5.5	6.0
Max Peak Current (A) (10min)	24.6/23.5	27.3/26.1	31.4/30.0	34.1/32.7	37.8/36.1	41.0/39.2
Max Peak Power (kVA) (10min)	5.4	6.0	6.9	7.5	8.3	9.0
Nominal Ac Voltage L-N (V)	220 / 230					
Nominal AC Frequency (Hz)	50/60					
Switching Time (ms)	Seamless					
Voltage THD (%)	<3					
<b>Efficiency</b>						
Max. Efficiency (%)	97.6					
Bat. between AC Efficiency (%)	96.8					
<b>Protection</b>						
Over Current/Voltage Protection	Yes					
Anti-Islanding Protection	Yes					
AC Short Circuit Protection	Yes					
Residual Current Detection	Yes					
Ground Fault Monitoring	Yes					
Insulation Resister Detection	Yes					
Enclosure Protect Level	IP65/NEMA4X					
<b>General Data</b>						
Dimensions (W*H*D, mm)	370*535*192					
Weight (kg)	18.5					20.5
Topology	Transformerless					
Cooling	Intelligent Fan					
Relative Humidity	0-100 %					
Operating Temperature Range (°C)	-25 to 60					
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